

No 39.

Oxidation of UO_2 at Low Temperatures, by
P. Perio, 17 pp.

FRANCOIS, par, Bull Soc Chim France, Vol XX,
Ser 5, 1953, pp 256-263.

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SEA/ARM-01012
Ass Tech Serv

68,430

Complexes of Copper with Alkali Salts of Fthalic,
Malonic, Succinic, Maleic, Salicylic and
Lactic Acids: Constitutions and Properties,
by M. Bottalsky, I. Bar-Gadda,

FRENCH, per, Bulletin Societe Chimique de France,
pp 276-279, 1953,

C.S.I.R.O.

Bcl

May 60

116,101

Separation of ^{22}Na From a Mg Target by Electrolysis
on a Renewed Hg Cathode, by Marius Chemla,
Jules Fama, 5 pp.
FRENCH, per, Bulletin Societe Chimique de
France, 1953, p 432. 9224882
AEC-ORNL-Tr-229

Sci-Chem
Nov 64

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The Mechanism of the Dimerization of Cyanamide, by
J. Ploquin, 18 pp.

FRENCH, per, Bull Soc Chim France, Vol XX, No 5,
pp 433-437, 1953.

BIA 3291

Sci - Chen
Aug 58

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Mastagli, Pierre] Zafiriadis, Z[afiri] and others.
ACTION OF ION EXCHANGERS IN ORGANIC
CHEMISTRY: APPLICATIONS TO THE FURFURAL
AND BENZALDEHYDE SERIES. 14 July 55, 6p.
Order from SLA \$1.10 62-14204

Trans. of Societe Chimique de France. Bulletin
[1953, no. 7/8] p. 693-[695].

DESCRIPTORS: *Ion exchange, *Furfuryl alcohols,
*Benzaldehydes, Acetyl radicals, Aldehydes.

It is shown that it is possible to obtain, by means of
ion exchangers, the condensations between the lineary
aldehydes and the furfural, - the acetals starting
from the furfural and the benzaldehyde. (Author)

(Chemistry--Organic, TT, v. 8, no. 9)

62-14204

I. Mastagli, P.
II. Zafiriadis, Z.
III. Title: Applications ...

Office of Technical Services

Recent Work on the Chemistry of Uranium Oxides, by
M. J. S. Anderson, 15 pp.

FRENCH, per, Bull. Soc. Chim. France, 1953,
pp 781-785.

AEC Tr No 2065

Scientific - Chemistry

P2b 55 CTS

21,489

62-22409

Grammaticakis, P.
CONTRIBUTION TO THE STUDY OF THE ABSORPTION IN THE MEDIUM ULTRAVIOLET, AND IN THE VISIBLE END, OF SOME AROMATIC ALDEHYDES AND KETONES AS WELL AS OF SOME OF THEIR FUNCTIONAL DERIVATIVES. [1962] 45p.
Order from K-H \$56.25 K-H 5199

Trans. of Société Chimique de France. Bulletin, 1953, no. 9, p. 821-826.

DESCRIPTORS: Absorption, *Ultraviolet spectroscopy.
*Aldehydes, *Ketones.

(Chemistry, TT, v. 8, no. 10)

- I. Grammaticakis, P.
- II. K-H-5199
- III. Kresge-Hooker Science Library Associates, Detroit, Mich.

Office of Technical Services

Considerations on the Uranium Oxides Between
 UO_2 and U_3O_8 , by P. Perio, 5 pp,

FRENCH, per, Bull. Soc. Chim. France, 1953,
pp 840-841.

ABC Tr No 2061

Scientific - Chemistry Feb 55 CTS

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Infrared Spectrometric Analysis of Phenol and
Cresol Mixtures, by M. Auzeras, R. Minangoy, 8 p.

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No 183, pp 924-927.

SLA 59-17312

~~*APC 59-17312~~

Sci
Feb 60
Vol 2, No 9

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Nitrochloronaphthalenes II. Dinitration of α -
Chloronaphthalene, by H. F. Bassilios and M. Shawky,
17 pp. (page 13 missing)

FRENCH, Bull soc chim, 1952, pp 1022-1029.

CIA/FDD/X-1334

13,053

Scientific - Chemistry

May CTS/DEX

Observations on the Vapor Tensions of the Metals
of the Rare Earths, Their Separation and Purifica-
tion, by Felix Trombe, 8 pp. UNCLASSIFIED

FRENCH, per, Bull. Soc. Chim. France, 1953,
pp 1010-1012.

S.L.A. 749/1955
ANC/UCRL-T-191

Scientific - Chemistry

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Theory of the Electrolytic Production of Aluminum,
by E. Bonnier,

FRENCH, per, Bulletin Societe Chimique France,
No 1, 1954, pp 1-3.

Butcher Tr No 3563
\$7.80

Wbur - France
Sci - Electronics
Minerals/Metals

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theory of the Electrolytic Production of
Aluminum, Part II, by E. Bonnier

FRENCH, per, Bulletin De La Societe Chimique
de France, No 1, 1954, pp D5-D11

Butcher: No 3564
\$9.90

Scientific - Min. Metals, Chemistry
Sub 56 CTS/dex

31,228

New Preparation of Calcium Fluoborate (Action of
Boron Trifluoride on Fluorine), by R. Paris, et al.

FRENCH, per, Bull Soc Chim France, Vol XXI, 1954,
pp 142, 143.

ATS 540-FJ

Sci - Chem

Aug 60

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Chromatographic Analysis of Mixtures Containing
Fatty Acids, Monoglycerides, Diglycerides,
and Triglycerides, by P. Savary, P. Desnuelle,
11 pp.

FRENCH, par, Bull Soc Chim France, No 7/8, pp
936-940, Jul/Aug 1954.

SIA 3861

Sci + Chem
Aug 58

70.338

<p>Vignes, P., Robey, M., and Simonnet, H. RESEARCHES ON THE QUANTITATIVE ANALYSIS OF GONADOTROPINS. I. SEPARATION BY CHRO- MATOGRAPHY OF TWO GONADOTROPIC ELE- MENTS IN THE URINE OF PREGNANT WOMAN (Recherches sur le Dosage des Gonadotrophines. I. Separation par Chromatographie de Deux Principes Gonadotropes dans l'Urine de Femme Enceinte). 26 Nov 60, 12p. (refs. control). Order from SLA at \$2.40, plus \$3.30</p>	<p>61-10929</p> <ol style="list-style-type: none"> 1. Gonadotropins--Separation 2. Urine--Chemical analysis 3. Pregnancy--Biochemistry <p>I. Vignes, P. II. Robey, M. III. Simonnet, H. IV. Title: Separation...</p>
<p>Trans. of Soc. (Ind. des) Chim. (et) Biologues). Bull. (etia) (France) 1954, v. 36 (no. 8), p. 1163-1172.</p>	<p>148740</p>
<p>(Biological Sciences--Biochemistry, TT, v. 5, no. 12)</p>	<p>Office of Technical Services</p>

Quantitative Separation of the Three Halogens, by
H. M. Mahant.

FRENCH, par, Bulletin de la Société Chimique
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C. S. I. E. O. T 4468

Sci

May 60

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Potassium Borohydride: Its Use by a Dry Method
in the Qualitative Analysis of Minerals, by
Pierre Romain, Rene Merland, Pierre Mesnard, 13 pp.

FRENCH, per, Bul Soc Chim de France, 1954, pp 1298-~~4~~
1304.

SIA 99-15092

Sci - Min/Met
Sep 59
Vol. 2, No 2

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Bouilloux, Georges.

USE OF FLUORESCENCE DERIVATIVES FOR THE
ANALYSIS IN NON-AQUEOUS MEDIA. [1963] 7p.
(Rept. formative content) 1 ref.
Order from SLA \$1.10

63-16133

Trans. of Société Chimique de France. Bull[etin]
1954 [Jan. 11/12] p. 1347-1349.

DESCRIPTORS: *Fluorescent dyes, Diagnostic agents,
Chemical analysis, Metals, *Colorimetric analysis.

The derivatives of fluorescein may be utilized under
certain conditions for qualitative and colorimetric
determination of most of the metals and of certain
organic bases if these are present in traces only. The
same solutions e. g. in liquid hydrocarbons are prac-
tically colorless when they are very dilute, the addition
of a metal salt or of an amine dissolved in the same
(Chemistry--Analytical, TT, v. 10, no. 9) (over)

63-16133

1. Title: Fluorescein
1. Bouilloux, G.

Office of Technical Services

Chemical Constitution of the Antibiotic Streptomycin
II. Study of the Acid Products of Hydrolysis, etc.
Maurice-Marie Janot, Henry Penau, et al. 24 pp

FRENCH, per, Bull Soc Chim de France, Jul/Dec
1954, pp 1458-1463

BIA 59-10606

Bol + Mod
Sep 59
Vol 2, Lk 2

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The Polymerization of Ethylene, by Karl Ziegler,
19 pp.

FRENCH, per, Bull de la Soc Chim de France, 1955,
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ATIC F-TS-10028/V

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Dec 1956 CTR/sex

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Long-Chain Aliphatic Compounds. I. Synthesis,
by Mathilde Brini, 17 p.

FRANCE, per, Bull Soc Chim France, 1955, Vol XXII,
pp 338-345.

SLA 60-10327.

Sci
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Vol XII, No 3

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On the Detection of Trace Elements Simultaneously
Using Spectroscopy and Paper Chromatography, by
Marguerite E. Heros, Lucien N. Amy,

~~FRANCE~~
RUBIN, per, Bull Soc Chim France, No 3, 1955,
pp 367-369.

AEC Tr-3997

Sci - Chem

May 60

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General Considerations of Fluidization, by R. Fort,
10 pp.

FRENCH, per, Bull Soc Chim France, 1955, pp 448-452.

SLA Tr 57-2686

Sci
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Preparation of Nitriles From Fatty Acids by
Fluidification, by Rene Kircher, 4 p.

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Vol XXII, No 3, pp 455-456.

SLA 60-10926

Sci
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Vol XII, n° 3

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Production of Boron by Ignecous Electrolysis,
by J. L. Andrieux, W. J. Deissl.

FRENCH, per, Bulletin Soc Chem France, No 6, Jun
1955, pp 838-841.

Henry Brucher Tr 3659

Sci - Chemistry, Electricity, Minerals/Metals

May 1956

\$3.85 34,906

Benoit, Germaine and Funke, Albert.
ACTION OF ETHYLENIMINE ON EPOXIDES (Action
de l'Éthylénimine sur les Epoxydes). [1961] 7p.

4 refs.

Order from SLA \$1.10

61-20956

Trans. of Soc[été] Chim[ique de] France. Bull[etin]
1955, p. 946-947.

DESCRIPTORS: *Epoxydes, *Ethylenimines, Imines,
Chemical reactions, Condensation reactions,
Amines, Hydrides, Hydrochloric acid, Propanols.

Ethylenimine readily condenses with the amino-
epoxydes to form aminohydroxyethylenimines. A
molecule of hydrochloric acid will yield the hydro-
chloride of the amine while leaving the imine ring
intact. (Author)

(Chemistry--Organic, TT, v. 7, no. 10)

61-20956

I. Benoit, G.
II. Funke, A.

Office of Technical Services

Study of the Thermal Decomposition of Hydrat-
gillite and of the Constitution of Activated
Alumina, by M. Papee and R. Tertian, 16 pp.

FRENCH, per, Bull Soc Chim France, 1955, pp
983-991.

AMS-86H8F

Assoc. Tech

ser 71, 210

Sci

Aug 58

Studies on the inclusion Compounds of
Graphite, by A. Herold.
FRENCH, per, Bulletin Societe Chimique de
France, No 7/8, 1955, pp 999-1012.
SLA TT 64-14934

Sci
May 67

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62-10011

Montel, Gerard.
INSERTION COMPOUNDS (INCLUSION COMPOUNDS)
[Sur les Composés d'Insertion]. [1962] [11] p. 31 refs.
Order from SLA \$1.10 62-10011

1. Title: Inclusion
compounds
1. Montel, G.

Trans. of Soc[été] Chim[ique] de France. Bull[etin]
1955 [no. 7/8] p. 1013-1017.

DESCRIPTORS: *Clathrate compounds, Molecular
structure, Lattices, Chemical properties, Stability,
Chemical reactions.

(Chemistry, TT, v. 9, no. 2)

Office of Technical Services

Researches on 5, 6-Diaryl-1,2,4-Triazines, II. Catalytic Hydrogenation of 3-Hydroxy-5, 6-Diphenyl-1,2,4-Triazine, by M. M. Palenowski, et al.

FRENCH, par, Bulletin Societe Chimique de France, 1955, pp 1165-1171.

OSIRO

Sci - Chem
Jan 62

199,619

Researches on 5,6-Diaryl-1,2,4-Triazines,
III. Catalytic Hydrogenation of
3-methoxy-5,6-Diaryl-1,2,4-Triazines,
by M. Palancin, et al.

FRANCE, par, in Bulletin Societe Chimique
de France, 1955, pp 1171-1175.

CHIRO

Sci - Chem
Jan 62

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A Simple Device for Regulating Voltages, by J.
Brefort, 5 pp.

FRENCH, per, Bull Soc Chim France, Vol X, Oct
1955, pp 1302-1303.

bu: 57-1697

May 58

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Research on Thymol. About the Constitution
and the Formation of the Benzyl Derivatives
of Thymol, by R. Boyer, A. Cheutin.

FRENCH, per, Bull Soc Chim de France,
Vol V, No 11/12, 1955, pp 1421-1426.

CSIRO

Sci - Chem
Jul 62

207, 701

Method of Preparing Acetylene Alcohol,
by J. M. Comie.

FRANCE, par, ~~REDACTED~~ Bulletin Societe
Chimique de France, 1955, pp 1449-1452.

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Sci - Chem
Jun 62

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Synthesis of the Polyols, Starting with Glycols and Ethylene Alcohols. Mechanism of the Reaction, by J. Wiemann, J. Gardan.

FRENCH, par, Bull. Soc. Chim. France, No 11-12, Nov-Dec 1955, pp 1546-1548.

ASLJB-GH1318

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Aug 59

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Synthesis of Higher Aliphatic di-Acids
by Hydrogenolysis of Thiophene Deriva-
tives, by N. P. Bun-Hoi, M. Sy, N. D.
Kuong.

FRANCE, per, Bulletin Soc Chimique De
France, 1955, pp 1553-1556.

OSIRO

Sci - Chem
Jun 62

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Ziegler, K.
POLYMERIZATION OF ETHYLENE. [1962] [15]p.
5 refs.
Order from SLA \$1.60 62-20057

Trans. of Soc[été] Chim[ique de] France. Bulletin
1956 [no. 1] p. 1-6.

DESCRIPTORS: *Polymerization, *Ethylenes,
*Metalorganic compounds, Butenes, Polymers, Alumi-
num compounds, Polyethylene plastics.

(Chemistry--Organic, TT, v. 9, no. 10)

62-20057

I. Ziegler, K.

Office of Technical Services

Process for the Solvent Extraction of Plutonium
From Uranium Irradiated in the Piles, by B.
Goldschmidt, P. Regnaud, I. Prevot, 9 pp.

FRENCH, per, Bull Soc Chem France, No 1, 1956,
pp 103-106.

ABC TR 2498

36,577

Sci - Minerals/Metals

Jul 1956

Application of Balanced Potentials Potentiometric
Argentometry to Elementary Organic Microanalysis, by
R. Levy, 49 pp.

FRENCH, par, Bull Soc Chim France, Vol III, pp 497-
527, 1956.

SLA 3430

Sci - Chem
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Initiation of Polymerizations-Influence of
the Polymerization System Upon Polymer Structure,
by Yvan Landler.
FRENCH, per, Bulletin Societe Chimique de France,
No 4, 1956, pp 542-546.
SLA TT 64-20926

May 67 325,065

Structure and Chemistry of Natural and
Synthetic Polyamides, by Georges Champetier,
28 pp.

FRENCH, per, Bull Soc Chim France, No 6,
Jan 1956, pp 853-865.

CIA/ID XX-236

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Sci - Chemistry
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IAC INTERNAL USE ONLY

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Contribution to the Study of the Thermic
Dehydration of Pure Glycerol, by Remi Hauschild
Jean Petit.

FRENCH, per, Bulletin Societe Chimique de
France, No 6, 1956, pp 878-881.

SLA TT 64-20463

May 67 325,061

Preparation and Properties of Magnesium Hydride,
by H. Freundlich, B. Claudel, 11 pp.

FRSUCH, per, Bull Soc Chim France, 1956,
pp 967-970.

ABC Tr 3551

SLA IT 64-20480

Sci - Chem
Mar 59

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The Structural Conformation of Terpenes, by
Y. Naves, 39 pp.

FRIEDEN, per, Bull. Soc. Chim. France, No. 7, 156,
pp 1020-1028.

82, or 1680

Sol - Chem
Apr 1957

Jan 1957

46, 216

High-Temperature Laboratory: Furnace,
by Hubert Forestier, Andre Mangin, 8 pp.

RESEARCH, par, Bull Soc Chim de France,
No 8/9, 1976, pp 1800-1808.

SLA 60-18148

Sci
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Jun 62

199, 281

Cachia, Marc and Wahl, Henri.
POLYCONDENSATION OF HALOTEREPHTHALIC
ACIDS WITH ETHYLENE GLYCOL. [1962] 13p. (figs.
tables omitted) 11 refs.
Order from SLA \$1.60

62-16262

Trans. of Soc[été] Chimique de France. Bulletin,
1966, no. 8/9, p. 1234-1238.

DESCRIPTORS: Halogen compounds, *Phthalic acids,
Condensation, Polymerization, Molecular weight,
*Glycols, *Ethylenes.

The polycondensation of haloterephthalic acids with
ethylene glycol leads to polymers endowed with a fila-
ment property, the melting point of which is lower; the
greater the dissymmetry introduced into the nucleus of
the terephthalic acid. Moreover, it appears that the dif-
ference in reactivity of ortho- and meta-carboxyls of
the halogens influences the reaction which, depending on
the case at hand, leads to more or less high polymers.
(Author)

62-16262

I. Cachia, M.
II. Wahl, H.

CLA TT 64-
28470

(Chemistry--Organic,
TT, v. 9, no. 1)

Office of Technical Services

Thermogravimetric Study of Orthoboric Acid,
H₃BO₃ 1. Dehydration as Influenced by the Following
Factors: Rate of Heating; Degree of Fineness and
Thickness of Substance; Dry or Humid Gas Atmosphere,
by Jean Haladjian, Georges Carpent.
FRENCH, per, Bulletin de Societe Chimique de France,

Imelik, Boris and François-Rossetti, Jeanine.
REMARKS ON THE METHODS OF CALCULATION OF
THE DISTRIBUTION OF PORES AND ON THE FORM
OF ISOTHERMS. Rept. no. 2 of the Study of the
Porosity of solids (Remarques sur les Méthodes de
Calcul de Distribution des Pores et sur la Forme des
Isothermes. (2^e Mémoire) Étude de la Porosité des
Solides). [1962] [18]p. (foreign text included) 10 refs.
Order from SLA \$1.60 62-14568

Trans. of Société Chimique de France, Bulletin,
1957 [no. 2] p. 158-158.

DESCRIPTORS: *Solids, *Porosity, Determination,
Volume, *Adsorption.

The comparison of analytic data of a rather large
number of isotherms permits several practical results
to be disengaged concerning the utilization of methods
of calculation of the distribution of pores. The im-
(Chemistry--Physical, TT, v. 10, no. 6) (over)

62-14568

I. Imelik, B.
II. François-Rossetti, J.
III. Title: Study ...

Office of Technical Services

Determination Of Fluorine In Raw Phosphates By
the Alizarin-zirconium Method by R. Vigier.

FRENCH, per, ^{Bull} Societe Chimique De France (Bulletin),
No 2, 1957, pp 160-167.

CSIRO

Oct. 62

Some Physical Properties of Mixtures of
Nitric Acid and Chloroform, Alone or in the
Presence of Water or Sulfuric Acid, by
Charles Paquot, Roger Perron.
FRENCH, per, Bulletin Societe Chimique de
France, No 4, 1957, pp 529-531.
SLA TT 64-20890

Sci
May 67

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The 30° and 0° Isotherms of the Ternary System Water-Urea-Potassium Hydroxide, by R. Cohen-Adad.
FRENCH, per, Bulletin de la Societe Chimique de France,
1957, pp 544-545.
*NTIS TT 73-53005

Jan 73

Graff, Yves.

THE CALCULATION OF CORRELATION IN ANALYTICAL RESULTS (De l'Interet des Calculs de Correlation dans l'Interpretation des Resultats Analytiques) tr. by N. C. B. 27 May 58 [13]p. 2 refs. Order from SLA ml\$2.40, ph\$3.30 61-10526

Trans. of Soc[ete] Chim[ique de] France. Bull[etin] (France) 1957 [no. 3] p. 436-440.

(Chemistry--Analytical, TT, v. 5, no. 10)

61-10526

1. Chemical analysis
2. Statistical analysis--Applications
1. Graff, Y.

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Office of Technical Services

Busch, Norbert, Ebel, Jean Pierre, and Blanck,
Monique.

POLY- AND METAPHOSPHATES. VII. APPLICATION
OF ION-EXCHANGE CHROMATOGRAPHY TO THE
ISOLATION OF CERTAIN POLYTHIOPHOSPHATES:
TETRA-, PENTA-, HEXA-, HEPTA-, AND OCTA-
PHOSPHATES, tr. by Bertha P. Klenova. 11 Dec 57,
6p. 16 refs. [No. 13671.
Order from LC or SLA m\$11.80, ph\$1.80 60-19173

Trans. of Soci[et]e Chim[ique de] France. Bull[etin]
1957, p. 486-487.

(Chemistry--Analytical, TT, v. 3, no. 4)

60-19173

1. Phosphates--Separation
2. Ion-exchange resins--
Applications
3. Chromatographic analysis--
Applications
- I. Busch, N.
- II. Ebel, J. P.
- III. Blanck, M.
- IV. TVA-13671
- V. Tennessee Valley
Authority, Wilson Dam,
Ala.
- VI. Title: Application...

Office of Technical Services

1-16-61

143,227

Paquot, C. and Ferron, R.
SOME PHYSICAL PROPERTIES OF MIXTURES OF
NITRIC ACID AND CHLOROFORM, ALONE OR IN
THE PRESENCE OF WATER OR SULFURIC ACID.
[1964] 6p

Order from ATS \$8.00

ATS-64R74F

Trans. of Soc[été] Chim[ique de] France, Bull[etin]
1957, p. 529-531.

(Chemistry--Organic, TT, v. 11, no. 12)

TT-64-12679

- I. Paquot, C.
- II. Perron, R.
- III. ATS-64R74F
- IV. Associated Technical
Services, Inc.,
East Orange, N. J.

Office of Technical Services

<p>Normant, Henri. THE PREPARATION OF VINYLORGANOMAGNESIUM COMPOUNDS. [1961] 23p. 42 refs. Order from SLA \$2.60 . 61-16743</p> <p>Trans. of Société Chimique de France, Bulletin, 1957, no. 5, p. 728-733.</p> <p>DESCRIPTORS: *Magnesium compounds, Metalorganic compounds, Vinyl radicals, Synthesis.</p> <p>(Chemistry--Organic, TT, v. 6, no. 5)</p>	<p>61-16743</p> <p>I. Normant, H.</p> <p>180491</p> <p>Office of Technical Services</p>
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Mastagli, P., Lambert, P., and Francois, G.
THE ACTION OF ANION EXCHANGERS IN THE
CYANOETHYLATION REACTION. [1960] 8p. 13 refs.
Order from SLA m\$1.80, ph\$1.80 60-18987

Trans. of Soc[ieté] Chim[ique] de France. Bull[etin]
1957 [no. 10] p. 1108-1110.

Methods are described of using anion exchangers con-
taining quaternary amino groups such as Amberlite
IR-410 as a catalyst for the cyanoethylation of
alcohols, phenols, aldehydes, ethyl malonate, nitro-
methane, and formamide.

(Chemistry--Organic, TT, v. 5, no. 2)

60-18987

1. Vinyl cyanide--Chemical reactions
 2. Alcohols--Chemical reactions
 3. Ion exchange--Catalysis
 4. Title: Cyanoethylation
- I. Mastagli, P.
II. Lambert, P.
III. Francois, G.

142,815

Office of Technical Services

Quantitative Kinetics in Heterogeneous
Catalysis. The Influence of the Medium on
the Activity and Selectivity of Catalysts,
by J. P. Mauguier, J. C. Jungers,

FRANCE, par, Bull. Soc. Chimique de France,
pp 1060-1066, 1977,

C.S.I.R.O.

Sci - Chem

May 60

116,425

Research on Partial Oxidation of Acyclic Polyols by
Periodic Acid, by J. E. Courtois, H. Guernet.

FRENCH, bk, Bull. Soc. Chim, No 11/12, France, 1957,
pp 1388-1393.

Natl Res Council, Canada
PT No 755

Sci - Chem

Apr 60

112, 633

Application of Infrared Absorption Spectroscopy
to a Study of Oxemation and Antioxidation, by E.
Briner, 11 pp.

FRENCH, par, Bulletin de la Societe Chimique
de France, No 1, 1958, pp 69-73.

Assoc Tech Serv 60267
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Sci + Phys
OTM 1, 4
Apr 59

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A Study of the Volatile Plant Materials, Isolation
and Characterization of CIB-Anethole, by Y.-R.
Haven, et al.

FRENCH, par, Bull Soc Chim France, 1958, pp 566-569.

ATS 259-FJ

Sci - Chem
Nov 59

100,371

Research on the Electronic Structure of Fundamental
Cellular Constituents and Active Compounds in Anti-
cancer Chemotherapy. II. Fundamental Purine Bases,
by A. Pullman, B. Pullman, 14 pp.

FRENCH, per, Bulletin de la Societe Chimique de
France, No 6, 1958, pp 766-772.

MIN 5-30-61

Sci - Med
Jul 61

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The Sulfides of Uranium, by Marius Picon, Jean
Flabaut, 31 pp.

FRENCH, per, ^{French} Bull soc chim, 1958, pp 772-780.

AEC Tr 3504

Sci - Chem
Feb 59

81,307

The Catalytic Isomerization and Dehydrogenation
Activity of Alumina, by J. E. Germain et al.

FRENCH, per, Bull Soc Chim France, 1958, pp 958-964.

ATS 246-PJ

Sci
Nov 59

100,682

Research in Anticancer Chemotherapy, on the
Electronic Structure of the Fundamental Cellular
Constituents and of the Active Compounds. III. The
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Pullman, Mrs. Albert E. Pullman, 20 pp.

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1958, pp 973-980.

SLA 59-15762

NIH 6-2-61

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Extraction of Ureanyl Sulfate by Amino, by
Ch. Boirie, 22 pp.
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*Navy/NRL

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Dehydrogenation of Secondary Alcohols on Nickel, by
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SLA 59-10566

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Study of the Oxidation of Coal I. Identification of Benzene polycarboxylic Acids, by J. E. Germain, F. Valadou, 9 pp.

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AND-Tr-9210

Sci - Chem
Sep 62

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Hagemmuller, A. Lecerf, J. C. Boivineau, 10 pp.

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ATS-63438F

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Research on the Electronic Structure of the Fundamental Cellular Constituents and Active Components in Anti-cancer Chemotherapy. VI. Fundamental Natural Pyrimidines, by A. Pullman, B. Pullman, 8 pp.

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NIN 3-82-41

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Vibrational-Rotational Structure in the
Spectra of Certain Simple Molecules in
Solution, by J. Lascombe.

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NASA TT F-11,232

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Preparation of Disulfamide Imide and Some of Its
Derivatives, by M. Bouquet, M. G. Gryshkiewicz-
Trochimska, 3 pp.

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No 10, 1959, pp 1543-1544. 909292

ANC Tr-4515

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Sci - Phys

Jul 63

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Study of the Oxidation of Coal II. Analysis of
Benzene Polycarboxylic Acids, by J. E. Germain,
F. Valadon, 15 pp.

FRENCH, par, Bull Soc Chim de France, Vol XI,
1960. 9093978

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Sci - Fuels

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TN 157 No 61

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Nuclear Quadrupolar Resonance (NQR) and its
Application in Mineral Chemistry, by
E. Wendling.
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Stereochemistry of Bicyclo-(3, 3, 0) Octane.
IV. Substitution Reactions in the CIA-Bicyclo
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Nau, 11 pp.
FRENCH, per, Bulletin Soc Chim de France, 1960,
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SLA TT 64-18444

Jul 66

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STRUCTURAL STUDY AND CHANGES OF ACRYLO-
NITRILE POLYMERS IN SOLUTION. [1960] 5p.
Order from ATS \$8.20 ATS-86M46F

Trans. of Soc[ieté] Chim[ique] France, Bull[etin].
1960, no. 7, p. 241-245.

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(Chemistry--Organic, TT, v. 5, no. 8)

61-12642

1. Vinyl cyanide--
Polymerization
2. Polymer--Molecular
structure
1. Terrier, J.
- II. Eyraud, Ch.
- III. ATS-86M46F
- IV. Associated Technical
Services, Inc., East
Orange, N. J.

Office of Technical Services

Fripiat, Joseph J., Vancompernelle, Germaine, and
Servais, Albert.

STUDY OF THE SURFACE ACIDITY OF SILICATES
AND ALUMINO SILICATES BY TITRATION IN NON-
AQUEOUS MEDIA. [1961] 31p. (3 figs. omitted)
25 refs.

Order from SLA m/\$3.00, ph\$6.30

61-10861

Trans. of Soc[ie]te[] Chim[ique] de France. Bulletin
1960, no. 2, p. 250-259.

- 61-10861
1. Aluminum silicates--Surface properties
 2. Silicates--Surface properties
 3. Catalysts--Surface properties
 1. Fripiat, J. J.
 - II. Vancompernelle, G.
 - III. Servais, A.

148686

Office of Technical Services

(Chemistry--Physical, TT, v. 5, no. 12)

Types of Reduction and Types of Exchanges in the
Solid State by Utilization of Tungsten Mono-
carbide, by W. Freundlich, et al.
FRENCH, per, Societe Chimique de France. Bulletin,
1960, pp 281-283.
NTC 71-13604-07B

Feb 72

Byraud, Charles and Lanaspese, Pierre.
STRUCTURE AND EVOLUTION OF SODIUM ALUMI-
NATE SOLUTIONS. 2 Aug 60. 29p. 35 refs.
Order from SLA ml\$2.70, ph\$4.80 61-10862

Trans. of Société Chimique de France, Bulletin, 1960
[no. 2] p. 313-321.

The physicochemical study of sodium aluminate solu-
tions of molecular caustic ratio at any level greater
than one, by light diffusion, Raman spectrophotometry,
and translation diffusion militates in favor of a unique
aluminate ion, $Al(OH)_4^-$. A consequence of this fact is
the possibility of a thermodynamic study of the Bayer
phenomenon as represented by the reaction:
 $2Al(OH)_3 + [Al(OH)_4]^- \rightleftharpoons (n+1) Al(OH)_3 + OH^-$
Furthermore, it is shown that the separation of crys-
talline trihydrate cannot be spontaneous. This excludes
the macromolecular or macro-ionic intermediate.
(Author)

(Chemistry--Physical, TT, v. 5, no. 12)

61-10862

1. Sodium aluminates--
Molecular structure
 2. Sodium aluminates--
Reduction
- I. Byraud, C.
 - II. Lanaspese, P.

148685

Office of Technical Services

The Isomerization of Bicyclic Olefins C_8H_{12} on
Siliconphosphoric Catalyst, by J. E. Germain,
M. E. Blanchard, 18 pp.
FRANCE, per, Bulletin Societe Chimique de
France, 1960, No 3, pp 473-481.
SLA TT 64-18443

Jul 66

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63-14236

Page, Jean le and Jungers, Joseph-Charles.
CATALYTIC HALOGENATION IN CONCENTRATED
MEDIUM. IV. CHLORINATION OF AROMATIC
HYDROCARBONS, ACTIVATED WITH STANNIC
CHLORIDE. [1963] 18p. (figs. tables omitted) 8 refs.
Order from SLA \$1.60 63-14236

Trans. of Société Chimique de France. Bulletin
1960 [no. 3] p. 525-533.

DESCRIPTORS: *Hydrocarbons, Halogenation, *Chlori-
nation, Catalysts, Chlorides, *Tin compounds,
Reaction kinetics, Complex compounds.

The chlorination of aromatics, activated with stannic
chloride, corresponding to the order one in relation to
chlorine, hydrocarbon and catalyst, lends itself
particularly well, because of its simple kinetics, to
demonstrating the associations taking place in the m-
(Chemistry--Organic, TT, v. 10, no. 5) (over)

- I. Page, J. le
- II. Jungers, J.-C.
- III. Title: Chlorination ...

Office of Technical Services

63-20232

Delarue, Guy.
CHEMICAL PROPERTIES IN THE FUSED LiCl-KCl
EUTECTIC MIXTURE. II. SULFUR, SULFIDES,
SULFITES, SULFATES. [1963] [11p] Sreia
Order from SLA \$1.60 63-20232

Trans. of Societe Chimique de France Bulletin, 1960,
no. 5, p. 908-910.

DESCRIPTORS: *Sulfates, *Sulfites, *Sulfides,
*Sulfur, Mixtures, *Eutectics, Fused materials,
Chlorides, Potassium compounds, Lithium compounds,
*Chemical properties.

A qualitative study was made of the behavior of sulfur,
sulfides, sulfites, and sulfates in the fused LiCl-KCl
eutectic mixture, and a certain number of oxidation-
reduction reactions which permit to transform one of
these compounds into another one. (Author)
(Chemistry--Physical, TT, v. 10, no. 12)

I. Delarue, G.
II. Title: Sulfur...

Office of Technical Services

R-588-N

Synthesis of Double Fluorides by Reaction of ~~gas~~
Gaseous HF with Crystalline Chlorides, by Paul
Allamogny,

FRENCH, per, Bull Soc Chim France, 1960, pp 1099-1106.

*JPRS for Army Rocket and Guided
Missile Agency

Sed

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Picatinny Arsenal
Req. 73-64

6/11/73

R-15950-D
5 Feb. 1973

Methode thermique differentielle appliquee a l'etude
cinetique des reactions.

By par Pierre Baumgartner et Pierre Duhaut

Bull. Soc. Chim. France (1960), pp. 1187 to 1192

Language: French

Please translate & type 1 copy only. Type single space.
All paste-up.

Delarue, Guy.
CHEMICAL REACTIONS INVOLVING THE O^{2-} AND S^{2-} IONS IN MOLTEN $LiCl-KCl$ EUTECTIC. [1963]
 [12p] 5 refs
 Order from SLA \$1.60

63-20233

Trans. of Societe Chimique de France. Bulletin 1960,
 no. 8/9, p. 1634-1639.

DESCRIPTORS: *Eutectics, Chemical reactions,
 Chlorides, Lithium compounds, Potassium compounds,
 Oxides, Sulfides, Oxidation, Solubility, *Oxidation-
 reduction reactions, Fused materials.

The variations in oxidation-reduction properties with
 the O^{2-} and S^{2-} ion concentration in the molten mixture
 allow the anticipation of a certain number of chemical
 reactions. Among others, the dissolution of only
 slightly soluble oxides and sulfides by the action of
 oxidants such as Cu^{+2} , Fe^{+3} , Au^+ , Cl_2 can be proven.
 (Chemistry-Physical, TT, v. 10, no. 12) (over)

63-20233

I. Delarue, G.

Office of Technical Services

61-16543

Krausz, F.
ATTEMPTS TO PREPARE GRIGNARD REAGENTS OF
PHENYL ETHERS: A NEW CATALYST FOR THE
FRIEDEL-CRAFTS REACTION. 17 Apr 61 [5]p. 2 refs.
Order from SLA \$1.10 61-16543

Trans. of Société Chimique de France, Bulletin
1960 [ser. 5, no. 10] p. 1740.

DESCRIPTORS: *Grignard reagents, Catalysts,
Friedel-Crafts reactions, *Phenyl ethers.

Primary halides give Grignard reagents without diffi-
culty in anisole. Secondary halides did not react under
our conditions. Tert-butyl chloride leads to fixation of
the tert-butyl group on the ring. The catalyst seemed to
be not magnesium, but the traces of iron contained
therein. The preparation of 3-methoxy-4-tert-butyl-
toluene is described. (Author)

(Chemistry--Organic, TT, v. 6, no. 6)

I. Krausz, F.
II. Title: New...

176554

Office of Technical Services

Sekiguchi, H.
PREPARATION OF POLYBUTANAMIDE FROM
α-PYRROLIDONE (I) [1961] [14]p. (1 fig. 20 refs,
1 table omitted).

Order from SLA \$1.60 61-20855

Trans. of Soc[été] Chim[ique de] France. (Bulletin)
1960, p. 1827-1830.

DESCRIPTORS: *Pyrroles, *Polymers, *Canavanine,
*Amides, Polymerization, Condensation reactions.

(Chemistry--Organic, TT, v. 7, no. 11)

61-20855

H. Sekiguchi, H.

Office of Technical Services

61-20859

Sekiguchi, Hikaru.
KINETIC STUDY OF THE CATALYTIC POLY-
MERIZATION OF α -PYRROLIDONE (II). [1961] 11p
(3 figs 4 tables omitted) 8 refs.
Order from SLA \$1.60

61-20859

Trans. of Soc[été] Chim[ique de] France. Bull[etin]
1960, no. 1831-1834.

DESCRIPTORS: *Pyrrolidinone, *Polymerization,
Catalysis, *Reaction kinetics, Lactams

Subsequent to the preparation of polybutanamide from
 α -pyrrolidone (Soc. Chim. France Bull. 1960:
1827-1830; available in translation from SLA \$1.60) as
61-20855) we have studied the kinetics of catalytic
polymerization of this pentagonal lactam. Polymeri-
zation is initiated by an N-acyl lactam whose acyl
residue is incorporated into the polymer; catalysis is
by an alkaline salt of the lactam. The reaction is
(Chemistry, TX, v. 7, no. 11) (over)

1. Sekiguchi, H.

Office of Technical Services

62-10246

Sekiguchi, Hikaru.

REACTION MECHANISM OF THE ALKALINE CATALYTIC POLYMERIZATION OF α -PYRROLIDONE (III). [1961] 13p. (17 refs. omitted)

Order from SLA \$1.60

62-10246

Trans. of Soc[ieté] Chim[ique de] France. Bull[etin] 1960, p. 1835-1838.

DESCRIPTORS: Lactams, Amides, Polymerization, Chemical reactions, Catalysis, *Pyrrolidinone.

The kinetic study of the alkaline catalytic polymerization of α -pyrrolidone and the conclusions relative to the reactions of the initiator lead us to visualize for this reaction an anionic "lactamolytic" reaction mechanism like a polyaddition. By assuming three kinds of reaction between the amides and the lactam anion, according to the type of amides: cyclic amide, imide (Chemistry--Organic, TT, v. 7, no. 10) (over)

1. Sekiguchi, H.

Office of Technical Services

62-10245

Sekiguchi, Hikaru.
PHYSICAL AND MECHANICAL PROPERTIES OF POLYBUTANAMIDE (IV). [1961] 12p. (7 figs. 18 refs. omitted)
Order from SLA \$1.60 62-10245

Trans. of Soc[ieté] Chim[ique de] France, Bull[etin] 1960, p. 1839-1843.

DESCRIPTORS: *Lactams, Polymerization, *Amides, Polymers, Viscosity, Synthetic fibers, Mechanical properties.

A study of the mechanical properties of polybutanamide fiber has demonstrated a remarkable resistance and tenacity with reasonable elasticity (20% elongation and kg/mm^2 load at the yield point, and 30 to 40% elongation and 30 kg/mm^2 load at the breaking point, properties comparable to those of natural silk. (Author)

I. Sekiguchi, H.

(Chemistry--Organic, TT, v. 7, no. 10)

Office of Technical Services

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Studies on the Isohydric Point: XIX. THE Hydrated
Germanium Oxides $\text{GeO}_2 \cdot x\text{H}_2\text{O}$, aq. (Preparation,
Thermogravimetry, X-Rays), by A. Pietri,
J. Haladjian, et al.
FRENCH, per, Bulletin de Societe Chimique de France,
1960, pp 1909-1914. 9695547
DDC RKSIC-335

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Jan 65

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Muel, Bernard and Lacroix, G.
CHARACTERIZATION AND DOSAGE (TITRATION)
3,4-BENZOPYRENE BY MEANS OF LUMINESCENT
SPECTROPHOTOMETRY AT 190 C. [1962] 29p.
Order from K-H \$23.75 K-H 10969-c

Trans. of Soc[été] Chim[ique de] France. Bull[etin]
1960, no. 11/12, p. 2139-2147.

DESCRIPTORS: *Benzopyrenes, *Spectrographic
analysis, Luminescence, Titration, Dosage.

(Chemistry--Analytical, TT, v. 9, no. 2)

62-17537

- I. Muel, B.
- II. Lacroix, G.
- III. K-H-10969-c
- IV. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

Office of Technical Services

Gallium, by Pierre de la Breteque.

FRENCH, par, Bull Soc Chim France, 1961, pp 48-54.

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Sci - Chem

Oct 61

170,169

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